

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO	. [FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,209		01/20/2004	Young-Soo Han	CHAES7.003AUS	2517
20995	7590	02/11/2005		EXAMINER	
		ENS OLSON & BEA	JACKSON, ANDRE L		
2040 MAIN STREET FOURTEENTH FLOOR				ART UNIT	PAPER NUMBER
IRVINE, C	IRVINE, CA 92614			3677	
				DATE MAILED: 02/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

(-	Application No.	Applicant(s)					
	10/762,209	HAN ET AL.					
[™] Office Action Summary	Examiner	Art Unit					
	Andre' L. Jackson	3677					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 20 Ja							
· <u> </u>	action is non-final.						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-22 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6) Claim(s) <u>1,2,4,6,7 and 9-20</u> is/are rejected.	_						
	Claim(s) 3.5,8,21 and 22 is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Examine	r.						
(0)⊠ The drawing(s) filed on <u>20 January 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Off	ice Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	cation No eived in this National Stage					
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Ma						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/3/2004. 		al Patent Application (PTO-152)					

DETAILED ACTION

Claim Objections

Claim 11 is objected to because of the following informalities: In lines 5 and 7, change "rotates" to read -- rotate --. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6, 7 and 9-20 are rejected under 35 U.S.C. 102(b) as being anticipated by USPN 6, 009,568 to Miyazaki. Miyazaki discloses a hinge apparatus for coupling a first unit rotatable about a first axis and a second unit rotatable about a second axis parallel with the first rotation axis, the hinge apparatus comprising;

a housing (2); a first rotating member (3) adapted to be coupled to the first unit (19) and rotatable about the first rotation axis with respect to the housing; a second rotating member (4) adapted to be coupled to the second unit (20) and rotatable about the second rotation axis with respect to the housing, a first linearly moving member (12) cooperating with the first rotating member and linearly movable with respect the housing; a second linearly moving member (12) cooperating with the second rotating member and linearly movable with respect the housing; a first resilient member (13) urging the first linearly moving member against the first rotating member; and a second resilient member (13) urging the second linearly moving member against the second rotating member.

Art Unit: 3677

As to claims 2, 4, 9, 10, 18 and 19, the first and second rotating member are engagedly rotated with the first unit and second unit respectively, while the first and second linearly moving members are engagedly moved during rotation of the first and second rotating members respectively.

As to claims 6, 7 and 11-15, the first and second rotating members each include a cam member (10) and the first and second linearly moving members each include a cam follower member (12b) cooperating with the respective cam member of the rotating members. The respective cam members include upward and downward slant surfaces as seen in Fig. 10. The cam member further defines a fixing groove (11b) into which a respective cam follower member is inserted thereto. As seen in Fig. 11, at a foot of the fixing groove a horizontal surface is contiguous at the fixing groove, wherein stoppers (11a) having grooves at both ends of the cam member prevent movement of a respective cam follower member out of engagement thereof.

As to claims 16, 17 and 20, Miyazaki discloses that the first and second rotating members define protrusion portions or rod ends (3c, 4c) and the first and second linearly moving members include a groove (12a) defining a track into which the protrusion portions can be inserted and guided therewith, wherein the first and second linearly moving members and the first and second resilient members are fitted around the rod ends.

Allowable Subject Matter

Claims 3, 5, 8, 21 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 3677

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In particular, Fujita and Tourville et al both disclose hinge devices including housings, defining at least two hinge shafts, two movable cam members and two spring members arranged to meet the limitations of applicant's base claim. Ko et al and Kuivas et al each disclose hinge structures useable within an electronic device, which may be used in combination to meet the limitations of applicant's base claim.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre' L. Jackson whose telephone number is (703) 605-4276. The examiner can normally be reached on Mon. - Fri. (10 am - 6 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy J. Swann can be reached on (703) 306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

André L. Jackson Patent Examiner AU 3677

ALJ

ROBERT J. SANDY